



GeoScience Teacher-in-the-Park Summer Internship **Applications available**

Mount Rainier National Park will sponsor summer internships for two classroom teachers during the summer of 2012. Successful candidates will spend 7-8 weeks at Mount Rainier National Park working alongside park scientists as they examine the park's landscape response to climate change and the increasing threats to park infrastructure.

The research project for the 2012 season:

- Survey river cross sections and longitudinal profiles and compare the surveyed data with previous surveys to analyze topographic change due to sediment transport.
- Topographically survey several glaciers in the park to determine the extents of stagnant and active ice.
- Document the movement and physical characteristics of "sediment waves," or discrete packets of sediment moving downstream in Park Rivers.
- Maintain and compute discharge measurements at a stream gauging station, including the development of a standardized rating curve.
- Document floods and flood surveying, debris flows investigation and other geologic/geomorphic events as they occur.
- Assist with glacier mapping of terminus positions and stagnant ice.
- Assist with "forensic" geomorphology of recent destruct debris flows to identify triggering mechanisms. There is substantial evidence of increased debris flows associated with glacier melting and climate change.

Prior to starting this position a government security background clearance will be required. This position is offered in partnership with the National Association of GeoScience Teachers. Selected teachers will receive a \$2000 stipend, and an opportunity to attend the USGS/NPS workshop "Living with a Volcano in Your Backyard" Teacher workshop.

If you have questions or require more information, contact Scott Beacon, Park Geologist at 360-569-6781 or scott_beacon@nps.gov.